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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/675,846	09/30/2003	Frederick M. Discenzo	03AB159/ALBRP326US	6862
75	90 01/25/2005		EXAMINER	
Susan M. Donahue			LARKIN, DANIEL SEAN	
Rockwell Automation 704-P, IP Department			ART UNIT	PAPER NUMBER
1201 South 2nd Street			2856	
Milwaukee, WI 53204			DATE MAILED: 01/25/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			M
	Application No.	Applicant(s)	AU
Office Action Commons	10/675,846	DISCENZO, FRE	DERICK M.
Office Action Summary	Examiner	Art Unit	
	Daniel S. Larkin	2856	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wi	th the correspondence ac	idress
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reg If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirt is will apply and will expire SIX (6) MON te, cause the application to become AB	eply be timely filed by (30) days will be considered time THS from the mailing date of this continuous (35 U.S.C. § 133).	ely. :ommunication.
Status			
1) Responsive to communication(s) filed on 08	November 2004.		
	is action is non-final.		
3) Since this application is in condition for allows	ance except for formal matt	ers, prosecution as to the	e merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-49 is/are pending in the applicatio	n.		
4a) Of the above claim(s) 25-49 is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8)⊠ Claim(s) <u>1-24</u> are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examir		b. the Francisco	
10) ☐ The drawing(s) filed on is/are: a) ☐ ac			
Applicant may not request that any objection to the Replacement drawing sheet(s) including the согте			ER 1 121(d)
11) The oath or declaration is objected to by the E			
,	Examinor: Note the analyse		
Priority under 35 U.S.C. § 119		2.440(=) (-1) (5)	
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have been au (PCT Rule 17.2(a)).	opplication No received in this National	l Stage
See the attached detailed Office action for a lis		Todolfou.	
Attachment(s)			
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		nformal Patent Application (PT	O-152)

## **DETAILED ACTION**

## Election/Restrictions

- 1. Applicant's election of Group I, claims 1-24, in the reply filed on 08 November 2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- Claims 25-49 are withdrawn from further consideration pursuant to 37 CFR
   1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 08 November
   2004.
- 3. This application contains claims directed to the following patentably distinct species of the claimed invention:

The species of using a chemical model to calculate the lubricity as embodied in claim 8.

The species of using one or more artificial neural networks to calculate the lubricity as embodied in claim 9.

The species of using one of a support vector machine, expert system, Bayesian belief network, fuzzy logic algorithm, and a data fusion engine to calculate the lubricity as embodied in claim 10.

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The species of utilizing a multi-element sensor comprising a three-electrode electro-chemical sensor as embodied in claim 13.

The species of altering an electro-static field in the vicinity of the multi-element sensor as embodied in claim 14.

The species of utilizing a multi-element sensor having a plurality of finger-like elements, wherein the spacing between three or more finger-like elements is different as embodied in claim 15.

The species of utilizing a multi-element sensor having a plurality of finger-like elements, whereby two or more fingers-like elements have different surface coatings as embodied in claim 16.

The species of utilizing a multi-element sensor having two surfaces that generate frictional forces between the two surfaces as embodied in claim 17.

The species of utilizing a multi-element sensor having two surfaces that generate frictional forces between the two surfaces, wherein at least one of the two surfaces comprises an insulating layer as embodied in claims 17 and 18.

The species of utilizing a multi-element sensor having two surfaces that generate frictional forces between the two surfaces, wherein at least one of the two surfaces comprises a layer of material that readily wears as embodied in claims 17 and 19.

The species of utilizing a multi-element sensor comprising a rotating disk and a surface that tangentially contacts the rotating disk as embodied in claim 20.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-7, 11, 12, and 21-24are generic.

NOTE: Applicant is required to pick ONE species from the processing claims, claims 8, 9, or 10, and ONE species from the multi-element claims, claims 13-20.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

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the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Larkin whose telephone number is 571-272-2198. The examiner can normally be reached on 8:00 AM - 5:00 PM Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on 571-272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Larkin AU 2856 21 January 2005

PRIMARY EXAMINER